
PABX



User' s Manual

CS/TS

Group Telephone System

Plsease read this manual before using

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Chap 1 Brief Introduction & Features

1.1 System Overview

With its design and manufacture according to G.712 and G.732 protocols of CCITT, the system integrates virtues of various KTSs with advanced functions of PABX, and has unique advantage in innovation. As a type of new generation with over 50 powerful functions for business and management, it has wide application in offices, enterprises, hotels.....etc. In a word, it is a ideal equipment for users to better communication conditions, improve work efficiency, control call fee payment, and make office intelligent come true.

1.2 Features

Normal phone programming: use normal phone programming, not need the specialized key phone.

System CRBT Function: except for operator and auto-attendant mode, the system can play the OGM without dialing any number. Connect with the computer, can record the promote information of the and play it to customers. (same as the CRBT of ISP)

Mutiple Dial-Out Mode: Can choose dial-out number 9 or direct dial CO line.

- < **Coming Call Prompt:** When all the extensions are busy, if external line calling (including door phone), the system will prompt the set ringing extension.
- < **Difference of the ringing:** internal call, external call and door phone call have different ringing.
- < **Transfer Caller ID (CTS Serial):** when CO.Line call in or other Extension call ,you can see Cid number in telephone;also the incoming CID number will follow while call transferred.
- < **Auto-attendant/Operator Mode:** the incoming calls from C.O. lines can be set up the operator mode or the auto-attendant mode freely.
- < **Dial in/out Setting:** can set any ringing extension and the using access of CO lines.
- < **CO Line Booking:** when the CO lines are busy but urgently to call, the system will prompt the extension when CO line available.
- < **CO Line Reservation:** any extension can reserve the CO line and do others operations.
- < **Three Way Conference and External transfer Function:** allows to add a third party to a two-party conversation and make a three-party conference. You can have only two Ext. with one C.O.line. And can make an outgoing call from one Ext then divert and connect other Ext to C.O.line.

PABX

- < **Call Transfer and Pickup:** all external and internal calling can be transferred, other ext. ringing can be picked up and not need answer the ringing ext. This system have many kind of pickup ways, including exts. pickup, CO line pickup and reservation, etc.
- < **Operator Function:** This system can be set two operator for reservation, call forwarding, call transfer and manager secretary.
- < **External Call Switch (call pickup during conversation):** during the conversation with CO line, if other CO lines or door phone calling, just easy reserve the answering CO line and pickup the calling call.
- < **External Music Interface:** allow you to change the system holding music freely.(optional)

Flexible extension number: The number of extension can be set up one to four digits.

Power Failure Memory: when power failure, the system can remain all the settings and just use all the functions when power again.

- < **Remote control programming:** It can sustain remote maintenance, process remote control programming, detect and maintain, which facilitate the users to install and test, and provide quick and effective service to users.

Chap 2 Installation & Connection


Before Installation

For easy and quick installation and connection, it is strongly recommended that the user read and follow the following instruction carefully so as not to damage the system accidentally by incorrect operation.

2.1 System Configuration

This system capacity smallest is 208, biggest is 416.

Model	CS (plastic covers)				TS (metal covers)			
	CS208	CS308	CS312	CS416	TS208	TS308	TS312	TS416
CO Line Ports	2	3	3	4	2	3	3	4
Exts. Ports	8	8	12	16	8	8	12	16
DISA	10s one paragraph				10s one paragraph			
Music On Holding	Piano music, external music input on holding is optional				Piano music, external music input on holding is optional			
Caller ID	External line caller ID				External line caller ID			

 Please according to the capacity and functions of your machine when install and program the system.

PABX

2.2 System Appearance

2.2.1 CS Plastic Series



① Power Indicator Light

② C.O.Line Indicator Light

③ Ground Port

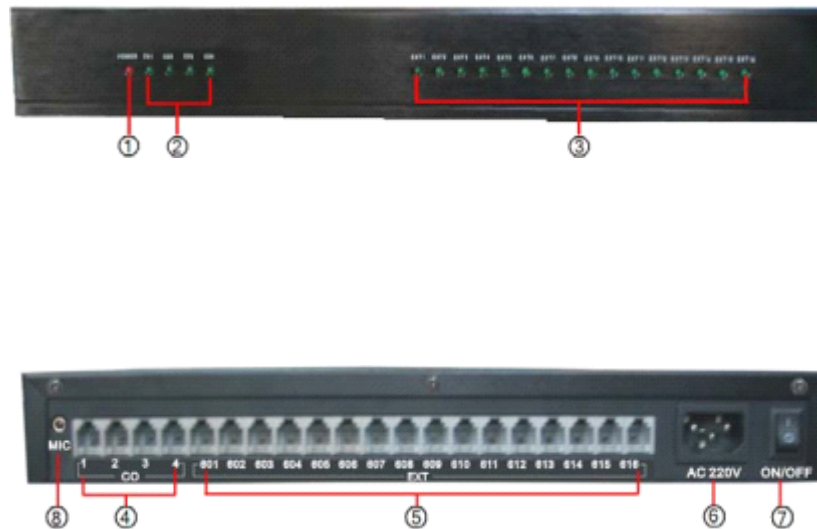
④ 308 C.O.Line Port

⑤ 308 Exts. Port

⑥ 416 C.O.Line Port

⑦ 416 Exts. Port

2.2.2 TS Metal Series

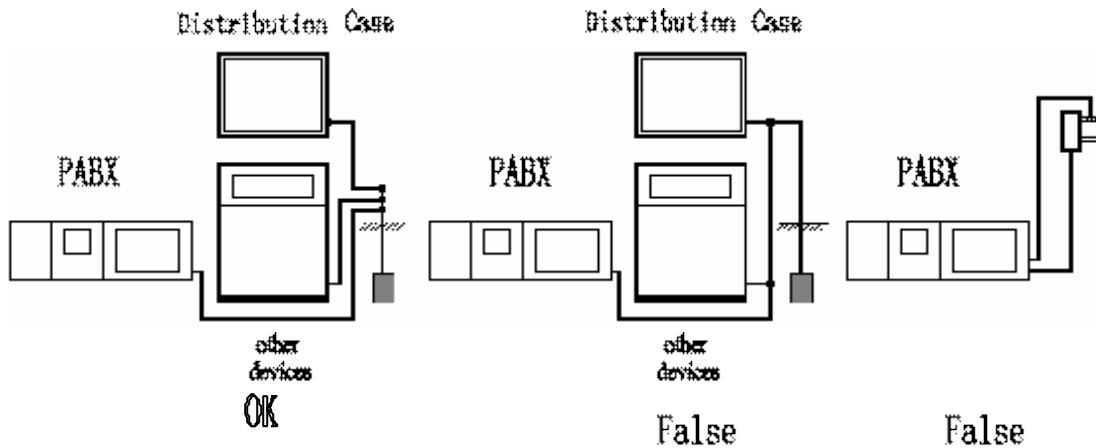


- ① **Power Indicator Light** ② **C.O.Line Indicator Light** ③ **Exts. Indicator Light**
④ **C.O.Line Port** ⑤ **Exts. Port** ⑥ **Power Socket**
⑦ **Power Switch** ⑧ **External Music Interface**
⑨ **Door Lock Interface(optional)**

2.3 Installation procedure

- ¾ Before installation, please check all the parts if have any looseness, take care the supply power switch if is shut down.
- ¾ The telephone exchange shall be installed in a stable indoor place with dry, ventilated environment. (Temperature Range: 0-45℃, Humidity Range: 20%-80%. Avoid straight sun shine or in the environment of flammable or caustic gas.) Special telephone wire is preferable.
- ¾ A wall bore is available at the underside of mainframe for wall installation. Desk installation is also admitted. But the contact of wall bolt and circuit board inside the mainframe should be avoided.
- ¾ None of the wiring of any extension should share the pipeline with power supply or antenna. Neither should the extension be close to antenna for air broadcasting (including short-wave).
- ¾ For the sake of personal safety and communication quality, grounding of PABX should be reliable. Or else, the lightning-proof device inside would fail to work.
Resistance to ground should be less than 5 ohm.

Grounding as follows:



- $\frac{3}{4}$ Connect the monomer-crystal with EXT. line and C.O. line separately.
- $\frac{3}{4}$ Connecting extensions according to the in-dilated extension positions and C.O. lines to the corresponding line ports on the unit.
- $\frac{3}{4}$ The C.O. lines will be connected direct to the special Exts automatically when the power failure. The No.1 C.O. line will be connected to Ext. 601 and No.2 to Ext.602, No.3 to Ext.603, No. 4 to Ext.604. So you only can use the four Exts as normal phone with direct C.O. line.
- $\frac{3}{4}$ Test the system according to the default settings.

2.4 Installation Warning

1. The wiring should not be done in thundering.
 2. Avoid using telephone in thundering.
 3. Please don't use the telephone in flammable and leaking gas environment.
 4. Unless the equipment is disconnected, please don't touch the broken part of the wiring or any connection ends.
- Note: Lightning stroke is an accident, which will not be regarded as normal maintenance.

2.5 Direct Access when Power Failure

The C.O. lines will be connected direct to the special Exts automatically when the power failure. The No.1 C.O. line will be connected to Ext. 601 and No.2 to Ext.602, No.3 to Ext.603, No. 4 to Ext.604. So you only can use the four Exts as normal phone with direct C.O. line.

For example when someone call in with No.1 C.O. line at the time of power failure, the Ext.601 will ring, you can only pick up Ext. 601 and talk with the caller.

Chap 3 System programming

3.1 Before programming

- All the programming must be carried out on the extension 601, 602, 603, 604; all the programming must be into system programming status.
- All the extensions must be of dual tone multi-frequency phone.
- You are allowed to operate one by one, and end the process by simply pressing #. You don't have to hang up if something wrong occurs, you could press * to restart.
- If programming-extension (601,602,603,604) is in Direct-Dialing-Out mode, you need to press * to enter the internal system, then start programming.
- When the setting is finished, a long beep indicates that the setting is done correctly and saved in the system. If instead an array of short chirps is heard, that would indicate an error occurred in the setting. You need to check it out and reset the system. It is only after the end of the long beeps you can continue another system operation.
- You must use "enable C.O. lines" command according the actual trunk lines before using this product, if you don't enable any C.O. line, the system will consider there is no C.O. line and doesn't auto detect C.O. line.

How to programming

At first you must according 3.2.1 instruction enter into system programming status, and then you can begin to program as the following instruction.

3.2 Basic Command

3.2.1 Enter into System Programming Status

Format: # * EFGH

Explanation: EFGH is the system password now.

Example: For programming the system, you should enter the password first, now the password is 5678



1. You are required to dial: * # * EFGH in the Direct-Dialing-Out mode.
2. The default password is 0000, so you must enter 0000 in the first use
3. Programming telephone is EXT601, or EXT.602, or EXT.603, or EXT. 604

3.2.2 Change the Password

Format: 09EFGH#

Explanation: EFGH is the new system password.

Description: to change the password of system programming.

Example: Changing the system password from “0000” to “5678”



1. We suggest changing the password before using.

3.2.3 System Soft-Reset

Format: 0 9 9 9 9 9 9 #

Description: to reset the system when the system power on.

3.2.4 Flash time setting

Format: 0 0 L #

L=1 -----0.8s L=2 -----1.0s L=3 -----1.2s L=4 -----1.5s L=5 -----1.8s

Explanation: L means the flash time grade.

Description: For active the hold and divert operating use.

In default setting: L=2 (1.0s)

Example: Set the flash time to 1.2S

3.2.5 System return to default setting

Format: 0 0 0 0 #

Description: when returning to default setting, please wait and hear the confirm sound that means ok. Default setting please see the Chapter 8. This action will not effect the data of the charging.

1. this format can not return the flexible code extension number, also can not effect the

C.O. lines opening and shutting, also can not effect the charging data.

2. If want to return the extension number default setting, input 9000#

3.2.6 Set to Delaying mode

Format: 0 3 T T #

Description: Select all C.O.line to charge mode of Delay billing, TT – delay time (01-99 sec.), which is from finish dialing to the system start to charge

Default setting: Duration of time-delay being 5 seconds.

Example: Setting delay time: 20s, input: 0320#

3.3 Enable/Disable C.O. Lines

You must use these commands according the actual trunk lines before using this product!!! If you don't enable any C.O. line, the system will consider there is no C.O. line and doesn't auto detect C.O. line!!!

3.3.1 Enable C.O. Lines

Format: 0600#

Description: Enable all C.O. lines

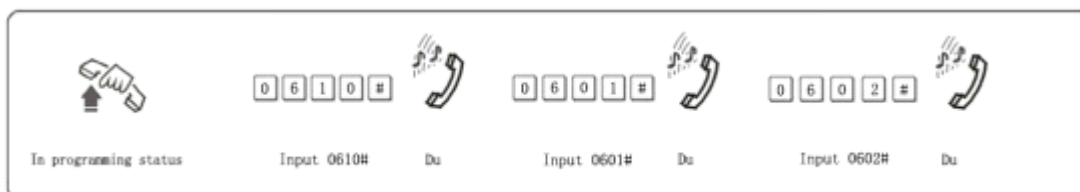


Format: 060M#

Explanation: M: C.O. line No. M = 1 - 4

Description: Enable the M C.O. line

Example: You have 308 model product, you want use C.O. line 1 and C.O. line 2, and the line 3 is not in use.



3.3.2 Disable C.O. Lines

Format: 0610#

Description: Disable all C.O. lines

Format: 061M#

Explanation: M: C.O. line No. M = 1 - 4

Description: Disable the M C.O. line

3.3.3 Trunk lines(c.o.lines) working assignment (UCD)

Format: 0 6 2 0 #

Description: This setting make the system assign the different trunk lines working averagely, it means the system will use the trunk lines circulating. (For example: the system will use trunk line 01, then line0 2, line03,line16 circulating). This setting can avoid the user always use some trunk lines.this is default setting.

Format: 0 6 2 1 #

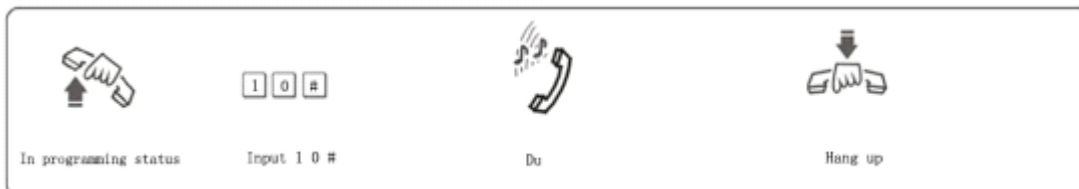
Description: This setting make the system use trunk lines in sequence, it means the system always choose the trunk line of lower number if available. (line 01 is the lowest number)

3.4 Setting Operating mode

3.4.1 Setting Auto-attendant Mode (OGM) for C.O. Lines

Format: 1 0 #:

Description: allows all the C.O. lines in Auto-attendant Mode (DISA --Direct Inward System Access status). In this mode, Caller will hear the OGM recorded message, while all extensions are in MUTE mode



1. If the caller doesn't know the extension number, he can inquire the operator by dialing "0".

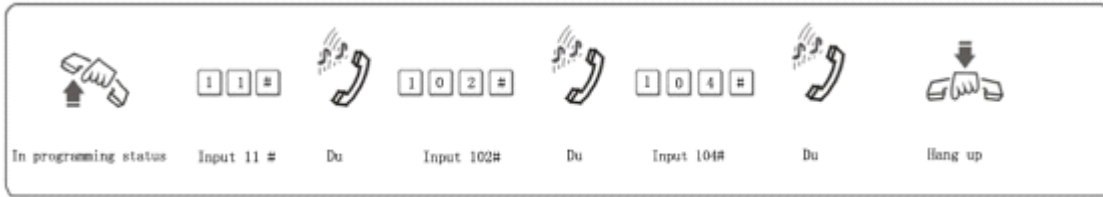
2. Outgoing Message must be record when setting this mode.

Format: 1 0 M #

Explanation: M: C.O. line No.1-No.4

Description: allows the No.M C.O. lines in Auto-attendant Mode(DISA --Direct Inward System Access status).

Example: Set C.O. line 2 and 4 in Auto-Attendant mode, other C.O. line in operator mode.



1. If the caller doesn't know the extension number, he can inquiry the operator by dialing "0".

2. Outgoing Message must be record when setting this mode.

3.4.2 Operator Busy Process

Format: 1540# Operator busy waiting, this is the default setting.

1541# Operator busy ringing the set extension.

Description: when many C.O. lines calling in, the operator just have one or two communication lines, so some C.O.line only waiting ; but this setting can allow the C.O.line calling ring the set extension directly and will not lose any calling.

3.4.3 Setting Operator Mode for C.O. line

Format: 1 1 #:

Description: Allows all the C.O. lines in Operator mode. In this mode, the operator extensions and other ringing extensions will ring when an incoming call is received.

Format: 1 1 M#:

Explanation: M: C.O. line No.1-No.4

Description: allows the No.M C.O. line in Operator mode.

Example: Set C.O. line 1 and 3 in operator mode, other C.O. line in Auto-attendant mode.

3.4.4 System CRBT Setting

Format: 167# disable system CRBT

1670# enable system CRBT, C.O. line calling play OGM and ring the operator directly.

1676# enable system CRBT, C.O. line calling play OGM and ring the extension directly.

3.5 OGM Recording/Monitoring (For CS/TS Series)

3.5.1 OGM Recording

Format: 1 2 #

Description: Used to record an outgoing message for Direct Inward System Access (DISA).

3.5.2 OGM Monitoring

Format: 1 3 #

Description: Play and monitor the recorded OGM.

3.5.3 System Music Monitoring

Format: 14 #

Description: Perform the music on holding melody or test the quality of telephone unit.

3.6 OGM Recording/Monitoring (For CS+/TS+ Series)

3.6.1 OGM Recording and setting to three paragraph mode

Format: 1 2 M #

Explanation: M=1,2,3 the paragraph of the OGM


Description: Used to record an outgoing message for Direct Inward System Access(DISA).

OGM 1 recording (8 seconds), this is the first OGM, usually it is for company greeting, for example, you may record "This is ABC company, Pls dial extension number or dial "0" for operator. Thanks you for calling."

OGM 2 recording (6 seconds), this is the second OGM, usually it is for C.O. line dial extension and this extension is busy, if you want to transfer this calling to other extension, you may record "Sorry! This extension is busy. Pls dial other extension number or dial "0" for operator."

OGM 3 recording (6 seconds), this is the third OGM, usually it is for C.O. line dial extension and this extension no answer, you may record "Sorry! This extension do not answer, Pls dial other extension number or dial "0" for operator."

Example: Recording the first pieces OGM

 1. when the system use two OGM ,you will record the same contents into two OGM,that means

each paragraphs recording of two OGM is same .

2.The new message will overwrite the old one;

3. Please use high quality telephone to ensure high quality of recording;

4. If the caller dials a number before the system finishes playing the message, the system will terminate playing the message, waiting for the caller to complete dialing;

5. The caller will be connected to operator if he dial 0 first for inquiry;


3.6.2 Monitoring the recorded OGM and setting to three paragraph mode

Format: 1 3 M #

Explanation: M=1,2,3 the paragraph of the OGM

Description: Confirms the recorded message in the OGM recording program, you can check if the recording is satisfied or not, if not, you can record again.

Example: monitoring the OGM 2

 when the system use two OGM ,you will hearing the first OGM's contents(the second OGM is same)


3.6.3 One paragraph OGM Mode

Format:: 1 2 0 0 #

Description: to recording one paragraph OGM(20s total)

Format:: 1 3 0 0 #

Description: to play and minitor one paragraph OGM(20s)

: 1. After performed above two commands(1200# or 1300#), system will change to one OGM 20

seconds automatically.

2. After performed 12M#、13M# two commands, system will change to 3 OGM 20 seconds

automatically.

3. The OGM mode will be kept after power off.

3.7 Auto-attendant Mode Setting

3.7.1 No Answer Process

Format: 160 # this is default setting

Description: In auto-attendant mode, if the C.O. line doesn't dial the extension number over 5 seconds or more after hearing the OGM, then the C.O. line will be cut off.

Format: 161 # or 1610#

Description: In auto-attendant mode, if the C.O. line doesn't dial the extension number over 5 seconds or more after hearing the OGM, then the C.O. line will be transferred to Operator.

Format: 1616#

Description: In auto-attendant mode, if the C.O. line doesn't dial the extension number over 5

seconds or more after hearing the OGM, then the C.O. line will be transferred to ringing extension.

3.7.2 Extension Busy Process

Format: 165#


Description: when the extension line busy, the line break; this is the default setting.

Format: 1650#

Description: when the extension line busy, the call transferred to operator.

Format: 1656#

Description: when the extension line busy, the call transferred to operator ring extension.

 Above setting will be in effect with single OGM of the operator.

Format: 1655#

Description: when the extension line busy, prompt sound to the extension

 This setting will be in effect with single or multiple OGM.

3.7.3 No Answer Process

Format: 166#

Description: when the extension line busy, the line break; this is the default setting.

Format: 1660#

Description: when the extension line busy, the call transferred to operator.

Format: 1666#

Description: when the extension line busy, the call transferred to operator ring extension.

3.8 Operator Setting

3.8.1 Operator Setting

Format: 15N #

Explanation: N: the Ext. line No., N=01-16

Description: To assign any Ext as the operator. In the default setting, EXT602 is the operator.

Example: Setting Ext.12 as operator

3.8.2 Fast Dialing Operator

Format: 1520# system fast dialing operator is effective, this is the default setting.

1521#system fast dialing operator is not effective.

3.9 Operator Attendant Ringing Setting

3.9.1 Ringing mode when all the ringing extensions is busy


Format: 1880#

Description: While the C.O.line come in, and all the ringing extensions assigned to C.O.line is

busy , the system will send waiting call beep to the ringing extensions for every five seconds, these extensions is assigned to the C.O.line

Format: 1 8 8 1 #

Description: While the C.O.line come in, and all the ringing extensions assigned to C.O.line is busy, instead of sending the waiting call beep, the system will find the first idle extension begin from Ext. 601 to Ext. 696 in sequence then ringing it.

 These setting will take effect only when the system in operator mode

3.9.2 Ringing Extensions Assignment/ to Cancel in Day mode

Format: 3MN0#

Explanation: M: the C.O. line No. M=1 – 4; N: the Ext. line No. N= 01 - 16

Description: In operator mode when calling of No.M C.O. line come in, Exts N will ring at the same time.

Default setting: Only Ext 601, 602 will ring.


Format: 3MN1#

Description: Disable Exts N ring when calling of No.M C.O. line come in.

Format: 3M#

Description: Disable all Exts ring when calling of No.M C.O. line come in.

Example: Setting 606 and 615 ringing when the C.O. line 2 comes in.

 1. This function must be in Operator Mode.

2. This programming only for C.O. line Incoming call. The extension which is not set ringing will ring under Intercom Calling, Call Transfer.

3. This function is one way to set some extensions for not disturbed.

3.10 Exts. Dialing-out Mode

Format: 21#:


Description: Indirect-Dialing-Out mode for all the Exts(dialing 9 for outgoing).

Format: 2N1#

Explanation: N: the Ext. line No., N = 01 - 16

Description: Indirect-Dialing-Out mode for Ext. N (dialing 9 for outgoing).

Example: Set Indirect-Dialing-Out mode for Ext.15

 In default setting, all extension are in Indirect-Dialing-Out mode.

Format: 20#


Description: set Direct-Dialing-Out mode for all the Exts.

Format: 2N0#

Explanation: N: the Ext. line No., N = 01 - 16

Description: set Direct-Dialing-Out mode for Ext.N.

Example: Set Direct-Dialing-Out mode for Ext.12

 1. In Direct-Dialing-Out mode, extension make intercom call should dial *first, then dial the extension number.

2. No need dial 9 before outgoing call.

3.11 Calling Restriction Setting

3.11.1 Calling Time Restriction Setting

Format: 6NTT#

Explanation: N: the EXT No. (N = 01 - 16)

TT: the time restriction duration (2 digits), should be in 01-99 minutes.

Description: set the Ext N outgoing call duration to within TT minutes. This function can only limit the time of exterior call.

Example: Set Ext.611 outgoing call duration to 8 minutes

Format: 6N00#

Explanation: N : the EXT No. (N = 01 - 16)

Description: Clear the Ext N outgoing call duration restriction.

Example: Clear the Ext.611 outgoing call duration restriction.

3.11.2 Calling Restriction-Class Setting

Format: 40 L#:

Explanation: L: class number, L= 0 - 6

Description: Assign dialing-out class L for all Exts.

L=1: no any restriction

L=2: call out with restriction of International long-distance dialing


L=3: call out with restriction of domestic long-distance dialing

L=4: call out with restriction initial of item A.

L=5: call out with restriction initial of item B.

L=6: only for intercom call

L=0: only for some special calling number Example:

Assign the calling class to be 3 for all extensions.  1. In

default setting, the class for all extensions is 2

2. This command enables a user to set class restriction on extensions in a fast and convenient way, especially when most extensions have the same class.

For example, if you want set extension 603 to class 3 and extension 608 to class 4, and the rest extensions to class 5, then you can set the restriction rank to be 5 for all extensions and change the restriction class to 3 for extension 603 and 4 for 608

Format: 40 N L#

Explanation: N: the Ext. line No., N = 01 - 16

L : class number, L= 0 - 6

Description: Assign dialing-out class L for certain Ext. N

Example: Assign class 3 for ext.606

3.11.3 Calling Restriction Item

< **Calling Restriction Item A**


Format: 4 1 Q ABCD#

Explanation: ABCD: the initial digits of the calling number to be locked, it can be from 1-digit to 4-digits, it should be ended with # if less than 4-digits.

Q --- The group series from 01 to 16.

Description: to restrict the call-out number starting with ABCD

Example: Ext.608 is be assigned dialing-out class 4, now you want Ext.608 can't dial the numbers with initial digits – 573,168

 1. Item A can lock 16 groups of initial digits.

2. Restrict Item A only work for dialing-out class 4.

Format: 41 Q #

Explanation: Q: The group series from 01 to 16.

Description: to clear the call-out restriction of certain numbers of group Q.

Example: you want to clear the call-out restriction of certain numbers with initial digits—573 of group 01,

Format: 4 1 #

Description: to clear all the call-out restriction of certain numbers of item A

< **Calling Restriction Item B**

Format: 4 2 Q ABCD#

Explanation: ABCD: the initial digits of the calling number to be locked, it can be from 1-digit to 4-digits, it should be ended with # if less than 4-digits.

Q --- The group series from 01 to 16.

Description: to restrict the call-out number starting with ABCD

Example: Ext.609 is be assigned dialing-out class 5, now you want Ext.609 can't dial the numbers with initial digits – 575,161



1. Item B can lock 16 groups of initial digits.

2. Restrict Item B only works for dialing-out class 5.

Format: 42 Q #

Explanation: Q: The group series from 01 to 16.

Description: to clear the call-out restriction of certain numbers of group Q.

Format: 4 2 #

Description: to clear all the call-out restriction of certain numbers of item B

3.11.4 Assign Special Calling-out Number

Format: 4 3 P ABCD#

Explanation: ABCD: the initial digits of the calling number to be locked, it can be from 1-digit to 4-digits, it should be ended with # if less than 4-digits.

P --- The group series from 01 to 16.

Description : Permit to dial the phone numbers starting with <ABCD> only.

Example: Ext.610 is be assigned dialing-out class 0,now you want Ext.610 can dial the numbers with initial digits – 0592,179



1. 16 groups of initial digits can be set.

2. This function only work for dialing-out class 0.

Format: 43P #

Explanation: P: The group series from 01 to 16.

Description: to cancel the permission of certain calling-out numbers of group P

Format: 4 3 #

Description: to cancel all the permission of special calling-out numbers.

3.12 Exts. Using C.O. Lines Access

Format: 7M#

Explanation: M: C.O. line No, M = 1 - 4

Description: This function allows Every Exts. can use C.O line M.

Example: Allow every exts. can use C.O. line 3



This function is for the outgoing call and can't change the function of C.O line ringing assignment.

Format: 7MN0#

Explanation: M: C.O. line No, M = 1 - 4 N: Ext. No, N = 01 - 16

Description: This function assigns the extensions N outgoing to use the certain C.O. line (M).

Example: Allow Ext.606 can use C.O. line 3

Format: 7MN1#

Explanation: M: C.O. line No, M = 1 - 4 ; N: Ext. No, N = 01 - 16

Description: This function restrict the Ext. N to use C.O. line M

Example: Restrict Ext.608 can use C.O. line 2

3.13 Flexible coding

Format: 9000#

Description: return to the Exts number of the default setting, that is: from 601 to 602 603... 616... 632 one by one, etc.

Format: 9Nabcd#

Explanation: N : the extension series number, N = 01 - 16,

abcd: the new number, 1 to 4 digit number, if new Ext number not exceeding to 4-digit number, press # in the end.

Description: Change old Ext number to new Ext number "abcd"

Example: Change Ext 606 to 806



1. The new numbers range from 1-8999; all extensions numbers can not be in duplicate.
2. The number can't begin with 0 and 9,
3. The length (digits) of new number must follow the extension No.1; it must be emphasized that if the length (digits) of new number changed, all the extensions must be reset after setting extension No.1. All the new numbers should be equal digits, and not in duplicate.

For example, to set the extension's number to 4-digit number (8001-8032), the user should dial 9018001# at first, then dial 9028002#, 9038003#...one by one, up to 8328032.

3.14 Ringing/Transfer/Reservation time

3.14.1 Internal Call Ringing Time

Format: 494TT#

Description: TT=01-99 (seconds), 0 means not stop ringing, default setting is 20 seconds; this time must be more than the transfer time and extensions call busy time.

3.14.2 Operator Dialing/Transfer Ringing Time

Format: 496TT#

Description: TT=01-99 (seconds), default setting is 25 seconds; this time means the ringing time if the extension not set transfer.



Note: this time must be more than no answer ringing time.

3.14.3 No Answer Transfer Time

Format: 184TT#

Description: TT=01-99 (seconds), default setting is 25 seconds;



Note: this time must be more than no answer ringing time.

3.14.4 External Line Reservation Time

Format: 186TT#

Description: Unit: 10 seconds, TT=01-99; Default setting is 120 seconds, TT=12

3.15 Transfer Operation Parameter

3.15.1 External Transfer Mode

Format: 1530#

Description: After 3 busy tone, can connect the C.O.line in 5 seconds, this is the transfer mode 1.

Format: 1531#

Description: After 10 secs busy tone, can connect the C.O.line again without off-hook, this is the transfer mode 2.

3.15.2 External Transfer No Answer Ringing Back

Format: 162# External transfer no answer ringing back, call back the caller extension, this is the default setting.

163# External transfer no answer ringing back, not call back the caller extension.

3.15.3 Off Place/Busy/No Answer Transfer Power-Down Conservation

Format: 170# Power-down not conservation

171# Power-down conservation, this is the default setting

3.16 CID functions Setting (For CS+/TS+ Series)


3.16.1 Add digits for intercom CID

Format: 1 8 0 #

Description: Disable add digits for intercom Caller ID ,this is default setting.

Format: 1 8 0 kk #

Description: Add kk in intercom Caller ID number

 Some CID telephone can't display the CID number less than 4 digits, so we must add more digits for intercom CID.

3.16.2 Internal CID mode(transmit mode) setting


Format: 1 8 1 0 # FSK mode(Default setting)

1 8 1 1 # DTMF mode

Format: 1 8 1 2 # FSK mode

1 8 1 3 # DTMF mode

1 8 1 4# Auto mode(Default setting)

 The system can auto select C.O. line CID mode. Sometimes if system can't display CID correctly and you know the CID mode, you can use 1812# or 1813# to set CID mode compulsively.

Chap 4 Operating Instruction

4.1 Operator Attendant Mode

When the C.O. line coming call, the extension ringing, pick up the phone and can be in conversation, if other extension want to hear the calling, can use the function of the pickup transfer.

4.2 Auto-attendant Mode

This system basic use one paragraph of computer operator's voice recording technology, it will be played when extension busy and no answer. And also can record the company's name, extension number and some messages.

4.3 Off Place/Busy/No Answer Transfer Programming

The system can set off-place/busy/no answer transfer programming by extensions 1-4 (601-604) and can easy management.

- z **(*)#25# Clear all the extensions' transfer of off-place and busy**
- z **(*)#26# Clear all the extensions' transfer of off-place**
- z **(*)#26+N+transferring exts. Set N extension's transfer of off-place**
- z **(*)#26+N# Clear N extension's transfer of off-place**
- z **(*)#27# Clear all the extensions' transfer of no answer**
- z **(*)#27+N+transferring exts. Set N extension's transfer of no answer**
- z **(*)#27+N# Clear N extension's transfer of no answer**

4.4 Dialing C.O. Lines

If extensions are direct dial-out mode:
Format: off-hook + tel no.

If extensions are indirect dial-out mode:
Format: off-hook + 9 + tel no.

4.5 Booking C.O.Lines

Format: off-hook + (*) # 0 + on-hook

Description: when the CO lines are busy but urgently to call, the system will prompt the extension when CO line available.


4.6 Outward dialing by an exclusive line

Format: [*] # 1 M

Explanation: M: C.O. line port number M=01-16

Description: In some occasion, the user may place an outward call by an exclusive line and we definite it as Choosing line dialing.

Example: At indirect-dialing-out mode, the user want call out by C.O. line 5 to dial *57*8622373#

 1、 If you want to outward from C.O.2 、 C.O.3、 ...C.O.line 9(M=2,9) you can only dial #12、 #13 ...#19 ,one digit M, And if you want to outward from C.O.line 1,you can dial #1 1 and waiting two seconds .that means if you want to outward from C.O.10 、 C.O.11、 ...C.O.line 16(M=10,16) ,you should dial the second digit of M within two seconds after you dial # 1 1,otherwise the system will select C.O.line 1.

2、 when the user want to dial some special number in the C.O.line such as * or # ,then he can use this operation;

3、 when the user want to check the C.O.line connecting is ok, ,then he can use this operation;

4、 Allows you to redial the last telephone number

4.7 Outgoing Call Transfer

The details operation, please see the C.O line transfer. This function just can take effect after several seconds for dialing the CO line last number.

4.8 Coming Call Pickup


4.8.1 Call Pickup Extension

Format: (*) # 3 + ext.

Description: Not ringing ext. can pickup the calling for ringing ext.(including ext. and CO line)

4.8.2 General Call Pickup

Format: (*) # 9 (General call pickup)

 Suggest don't use this function when much calling, otherwise easy pickup not willing call.

4.9 Call Transfer (External Call)

Format: Pat the hook (or press the FLASH button) then dial the Ext. number..

Description: 1. Allows you to transfer an incoming call to another Ext.

2. The Flash time can be set.

3、 In the process of the tranfer,the C.O.line will hear holding music(refer 4.9、 5.2).

4、 when the Ext. number is 0 ,then you will tranfer to the operator.

Example: Ext.607 is talking to C.O. line and want to transfer the C.O. line to Ext.618. Then Ext.605 can transfer the incoming call to Ext .618 by by patting the hook (or pressing the FLASH) and

dialing 618.



There may be following 8 cases after a call is transferred from A to B:

1. A does not hang up and B picks up his handset .Then communication between A and B is established while the outside caller is on hold (music on hold). Whoever hang up (A or B), the system will transfer outside caller to the other.
2. A does not hang up and B does not answer A within 25 seconds. Then A will restore the connection with CO. line , and B will stop ringing.
3. A hangs up and B answer the call, B will answer the outside caller.
4. A hangs up and B does not answer the call within 25 seconds, call will be back to A and will ring or cut off , if A never pick up the call in 25 seconds or A is busy , the system will cut off.
5. After A pat the hook then hear the error message, that means the system is busy, A can continue to pat the hook until the error message is disappear.
6. A make invalid operation or B is busy, After System indicate with “du-du-du” for 10 seconds then A should pat the hook to restore the call and repeat the tranfer operation.
7. A hangs up and B does not pick up. A pick up again and press: # 9 (If the Ext is at direct-dialing-out mode, you should input: *# 9), then A will restore the connection with C.O. line.
8. The EXT A, which transfer the call pat the hook , has 10 seconds to dial the Ext. number. Otherwise the Ext A will be silence, and system will continue to holding the C.O.line ,and C.O. line hear holding music; if the ext want back to the call, he can pat the hook.this can let the user to holding the C.O. line freely.

4.10 Three Way Conference

Format: Pat the hook (or press the FLASH button) dial * and the Ext .number

Description: Allows you to add a third party to a two-party conversation and make a three-party conference. You can have only two Ext. with one C.O. line.

Example: Ext. 605 is talking to C.O. line caller and he want to transfer the call to Ext.617. then Ext.605, Ext.617 and C.O. line can talk at the same time.



1. There may be following 2 cases after a call is transferred from A to B.


- a. A does not hang up and B picks up his handset. Then communication amount A B and C.O. line is established, whoever hang up (A or B), the system will transfer outside call to another one.
 - b. A does not hang up and B does not answer A within 25 seconds. If Ext. B does not answer A within 25 seconds, then A will restore the connection with C.O. line, and B will stop ringing.
2. The Ext, which transfer the call , has 10 seconds to dial the Ext number required otherwise you should pat the hook to return the incoming call to repeat the operation.

3. If dialing wrong number, you can pat the hook to return the incoming call.

4.11 C.O. line Reservation

Format: Pat the hook (or press the FLASH button) dial # # (Reservation) while talking with C.O.line.

Description: Extension N is talking with C.O. line A and at this time B calling in , Extension N Pat the hook and press # # to make A in state of caller On Holding(A is hearing music while waiting). At this moment, Extension N can make Call Pick Up, Call Transfer, Dialing Out etc....

-  1.The default setting of caller on holding's duration time is in 270 sec.
- 2. A extension can holding several calling,
- 3.You also can pat the hook (not dialing) to hold the C.O.line you are talking with ,refer 5.6 when you pat the hook again,you can restore the C.O.line ,but if you hang up ,the C.O.line will cut off.

4.12 C.O. line transfer to C.O. line

Description: Ext. N is talking with the C.O. line A, at this moment Ext. N holding this C.O. line A (pat the hook and input # #), then Ext .N can hear the internal dialing tone, now he can dial '9' to C.O. line C and use it to call desired number (at this moment if invalid operation or line is busy ,he can hang up and dial again) ,after Ext. N is talking with C.O. line C, Ext. N can operate the follows to make two function:

1. **3 party-Conferences (2C.O. line and 1 Exts):** Ext. N pats the hook and input # *Then communication amount Ext. N, C.O. line A and C.O. line C is established, the 3-party can talk, if Ext. N hang up, the C.O. line A and C.O. line C will be cut off, the talking will be ended.
2. **C.O. line transfer to C.O. line :** Ext. N pat the hook and input # 6 ,and Then communication amount Ext. N ,C.O. line A and C.O. line C is established ,The 3-party can talk ,but now Ext. N can hang up ,and C.O. line A can keep talking with C.O. line C; and system will indicate C.O.line A and C.O. line C every 2 mins, if C.O.line A and C.O.line C input *# within 10secs, the system will be continue to connect the 2 mins, otherwise the conversation will be end off and then release the C.O.line A and C.O. line C.

 If input ** at that time, the system will hand up the C.O.line and end off this operation.

4.13 Fast Reservation Transfer

Ext. can call pickup during the C.O. line conversation, together with the function of C.O.line prompt and then can carry out the general phone function.

Format: during the conversation, pat the hook and then press # 9

Description: Normal phone pat the hook and then press #9 transfer any incoming C.O.line(reservation original conversation), and also can transfer to pickup doorphone calling (note: C.O.line ringing first, doorphone second and internal reservation third). Keyphone should press "transfer" button and then press #9.

4.14 Call Switch (call pick during conversation)

While an Ext. talking with a CO. line , an Ext. or a doorphone, the other CO. line calling in or the other doorphone call in and should ring this Ext., you will hear prompts beep tone(the beep for doorphone calling and CO. line calling is different). Then you can:

Operation1: for normal phone, Pat the hook (or press the FLASH button), then you will hear dial tone, press "# 9" to switch another Co.line, also you can switch to receive the call from door phone. The first conversation now is be holded(for CO.line talking ,the holding time can be set in chapter 4, but for the conversion with doorphone will be ended), when you talking with the second call,you also can Pat the hook and press # 9 to take back the first holding call.

Note:

- 1、 when there are some calling at the same time ,CO.line calling is the prior grade to be switch, and door phone calling is second , the Co. line hold is in the third grade.
- 2、 For key phone you should press transfer key instead of Pat the hook.
- 3、 Answer incoming waiting call by # 9 and take back the first one by # 9 again can be repeatable as long as the you like for CO.line, but for doorphone you can only switch one time.
- 4、 The waiting incoming call beep(prompt beep) are different for the door phone call and the CO.line call ; The doorphone calling prompt beep is two beep(du du),and the CO.line calling prompt beep is three brief beep(du du du)

Operation2: for normal phone, Press # continue some time (or Pat the hook) ;then press "#2" to switch to a doorphone call(when you hear two prompt beep).

4.15 Intercom Calling

Format: * + Ext number

Description: Make internal call from Ext. with direct-dialing-out mode.


Format: Dial the Ext. number directly.

- 1、 Intercom calling is free of charge,
- 2、 Allow you to redial

4.16 Dialing Operator

Format: (*)+0

Description: This function easy dial operator.

-  1. If the ext. in indirect mode, not need press (*)
- 2. This function can be canceled.

4.17 Inquiry Functions (Automatic Reporting)

4.17.1 Reporting of Physics Number

Format: [*] # 60

Description: During installing and testing of the system, it is very convenient to find the Ext number.

The system use “du” for this purpose.

Example: After input # 61 on Ext. 626 you may you may hear 6 continuous “du” , and after 1.5 seconds you will hear 2 “du”; finally you will hear 6 “du” , at about 1.5 seconds later , that mean the Ext number is 626



10 continuous du stands for “0”

4.17.2 Automatic reporting of Ext number

Format: [*] # 61

Description: During installing and testing of the system, it is very convenient to find the Ext number.

The system use “du” for this purpose.

Example: After input # 61 on Ext. 626 you may you may hear 6 continuous “du” , and after 1.5 seconds you will hear 2 “du”; finally you will hear 6 “du” , at about 1.5 seconds later , that mean the Ext number is 626



10 continuous du stands for “0”

4.18 Priority Access and Monitoring

Format: #7 M

Explanation: M: the C.O. line port number. M = 1 - 4

Description: Establish direct connection with C.O. line regardless whether or not this line is occupied. This feature ensures the director or owner of a company monitor the C.O. line communication.

Example: Priority access to C.O. line 3.



- 1. Only Ext.601 has priority access
- 2. If the Ext is at Direct-Dialing-Out mode, you should input: * # 7 M.
- 3. The monitor is responsible for the legal issues resulting from the operation.

4.19 Call Forwarding

Format: **# 81** abcd then hang up

Explanation: <abcd> is desired Ext number. This is at Indirect-Dialing-Out mode. Description:

Allows the Ext user to transfer incoming calls automatically to desired Ext. Example: The user of ext. 605 wants to go to 607 for work then he can forward all the incoming calls of 605 to 607

Format: **# 81 #** then hang up

Description: Clear setting call forwarding directly of this extension.



1. In Direct-Dialing-Out mode, you should set with * **# 81** abcd and clear with * **# 81#**.

2. Pick up the handset of Ext with Call Forwarding function you will hear nothing and can't do any operating, you must hang up to cancel the function first

3. When power failure, this setting will not be stored.

4.20 Call Forwarding When Ext is Busy or Nobody Available

Format: **# 82** abcd then hang up

Explanation: <abcd> is desired Ext number. This is at Indirect-Dialing-Out mode.

Description: If a Ext is busy or nobody available after 25 seconds, the incoming call will be transferred to desired Ext. automatically.

Example: When the ext. 605 is busy or no answer, then he wants to transfer the incoming calls to the operator 602

Format: **# 82 #** then hang up

Description: Clear setting of call forwarding when Ext is busy or nobody available after 25 seconds



1. At Direct-Dialing-Out mode, you should set with * **# 82** abcd and clear with * **# 82#**.

2. When power failure, this setting will not be stored.

4.21 Don't Disturb Setting

Format: **# 83**

Description: If "Don't Disturb" is set for the extension, then this extension will not ring.



If the Ext is at Direct-Dialing-Out mode, you should input: * **# 83**

4.22 Call All Extension

Format: **# 88**



If the Ext is at Direct-Dialing-Out mode, you should input: * # 88

4.23 Clear Extension Function Setting

Format: [*] # 8 0

Description: This command will clear all function that extension set, such as No disturbing/Call divert/Call forwarding/C.O. line booking/Alarm clock etc. This command has no effect to other extension.

Appendix I Maintenance & Troubleshooting

1.Outgoing calls can't be made

- 1). C.O. line is set to special Extension;
- 2). Extension hangs up improperly;
- 3). CPU and internal data is disorder caused by unstable power.
- 4). Call restriction class is 6.

2.Outside calls can't dial in

- 1). The conjunction of C.O. line loose;
- 2). C.O. line was connected to other equipment;
- 3). No message recording at auto-operator mode.

3.Intercom can't be made

- 1). Extension hangs up improperly;
- 2). Extension number wrong.

BREAKDOWN	CAUSE	SOLUTION
Running light malfunction	Power off	Check the power socket and Power supply
No sound from extension	Disconnected wiring or malfunction of telephone.	Reconnect the wiring or try to remove the telephone's failure
Cacophony	Bad connection	Screw down the joint
	The distributing of line is not reasonable	Leave telephone from the disturbing source
Bad tone	Mix using of non-standard telephones	Use the standard telephones

PABX

No incoming telephone display	Devoid function of incoming telephone display	Write application to telecommunication office
	Wrong setting of No-disturbing and it status.	Rescind the No-disturbing and set incoming telephone display
Dial-out malfunction	Exterior line disconnected	Connect to the exterior line
	Exterior line is not connected well	Check whether the line is connected well
Limited calling time	Time limited	Rescind the limit
Cannot program the telephone	Wrong coding	Check the programming extension and use the right code
Others	Others	Refer to professional

Appendix II Glossary

Programming extension-----Extension No.601, 602, 603, 604

N-----Series number of the extensions (01-32 with corresponding input ports 601-632) (two digits)

abcd-----Number of the extension(1-8999,except for the digits with the first digit of 0 or 9,outward code of special trunk line, in equal length)is accordance with N.

M-----Series number of the exterior line (No.1-8 with corresponding input ports of Line 1- 8)

P-----Licensed Group Number (01-16)

Q-----First-digit restrict group number (01-16)

ABCD-----Licensed or restricted number of first 1-4 digits

EFGH-----4 digits of programming password

L-----Service grade(Grade of private passwords or outgoing call),grade 0-6

TT-----Time in minute for call duration control, ranges from (01 to 99)

F-----Flash time class.

YYMMDD-----YY: Year, two-digit number, from 00 to 99, MM: Month, two-digit number, from 01 to 12, DD: Date, two-digit number, from 01 to 31

hh:tt-----hh: hour, two-digit number, from 00 to 23, tt: minute, two-digit number, from 00 to 59

Appendix III Default Settings

- The system programming password: 0000
- Operating mode: All C.O. line in Operator mode
- Dialing out mode: Indirect-Dialing-Out mode, dialing “9” for outgoing
- All C.O. lines are ungrouped
- Operator: Ext 602
- Ring Ext.: Ext 601 and Ext 602
- Extension service class assignment: 2
- Time Restriction: No
- Flash time: 1.0s
- Outgoing Exts. Assign to Certain C.O. lines: No
- Original EXT number: 601 to 616
- Restrict Item A / Item B: No setting
- Special Calling-out Number: No setting

Appendix IV Programming & Operation Instruction**1. Index of Basic Operation**

	Description	Indirect-Dialing-Out mode Command	Direct –dialing-out mode
1	Outward Dialing	9 + desired number	desired number
2	Outward Dialing by a Exclusive Line	# 1 M	* # 1 M
4	Intercom calling	Ext number	*+Ext number
5	Call Transfer	Pat hook + Ext number	
6	Secretary Function	Pat hook + Ext number	
7	3-Party Conference Call	Pat hook + * + Ext	
8	Caller on holding	Pat hook + ##	
9	Call Pickup	# 9	* # 9
10	Call Forwarding Directly	setting: #81 +Ext number	*#81+Ext Number
		clear : #81#	*#81#
11	Call Forwarding when Ext is busy or nobody available	Setting: #82 +Ext number	*#82+Ext number
		clear : #82#	*#82#
12	Automatically Call back Busy- come on	# 0	* # 0
13	Automatic Reporting of Ext number (voice)	# 60	* # 60
14	Reporting of Ext number for caller ID phone	# 62	* # 62
15	Connect with Operator Directly	0	* 0
16	Priority Access and Monitoring (only Ext.601)	# 7 M	* # 7 M
17	C.O. line transfer to C.O. line	Pat hook + #* (3-Party conference)	
		Pat hook + #9 (C.O. line transfer to C.O. line)	
18	Monitor the chord melody music	#67KK#	*#67KK#
19	Setting Don't disturb	#83	*#83
20	Use broadcast function	#88	*#88

2. Index of system programming

No.	Description	Command
1	Start the System Programming	(*) # * EFGH
2	Change the System Password	09 EFGH #
3	Return to Default Setting	0000 #
4	Enable all C.O. lines	0600 #
5	Disable all C.O. lines	0610 #
6	Enable No. M C.O. line	060M #
7	All C.O. lines in Auto-attendant Mode	10 #
8	C.O. line M in Auto-attendant Mode	10 M #
9	All C.O. lines in Operator Mode	11 #
10	C.O. line M in Operator Mode	11 M #
11	OGM Recording	12 #
12	OGM Play	13 #
13	Monitor Holding Music	14 #
14	Setting Operator	15 N #
15	System option for no dialing in The DISA----Cut off C.O. line	160 #
16	System option for no dialing in The DISA----Transfer to Operator	161 #
17	Disable add digits for intercom CID	180 #
18	Add KK in intercom CID number	180 KK #
19	Set C.O. line CID mode to FSK (optional)	1812 #
20	Set C.O. line CID mode to DTMF(optional)	1813 #
21	Set C.O. line CID mode to Auto Detect(optional)	1814 #
22	Direct-Dialing-Out mode for Ext.N	2 N 0 #
23	Indirect-Dialing-Out mode for Ext.N	2N1 #
24	Direct-Dialing-Out mode for all the Exts.	20 #
25	Indirect-Dialing-Out mode for all the Exts	21 #
26	Enable Exts N ring When calling of No.M C.O. line come in	3MN0 #
27	Disable Exts N ring When calling of No.M C.O. line come in	3MN1 #
28	Disable all Exts ring When calling of No.M C.O. line come in	3M #
29	Assign dialing-out class L for certain Ext. N	40NL #
30	Assign dialing-out class L for all Exts	40L #
31	Restrict the Certain Numbers from item A	41 Q ABCD #
32	To cancel the restriction of item A	41 #
33	To clear group Q of restriction item A	41Q#

PABX

34	Restrict the Certain Numbers from item B	42 Q ABCD #
35	To cancel the restriction of item B	42 #
36	To clear group Q of restriction item B	42Q#
37	Assign Special Calling-out Numbers	43 P ABCD #
38	To cancel the permission of special calling-out numbers	43 #
39	To cancel group P of special calling-out numbers.	43 P #
40	Time Restrict Setting	6N TT #
41	To cancel time restrict	6N00 #
42	assign the extensions N outgoing to use the certain C.O. line (M).	7MN0 #
43	To restrict the EXT.N to use C.O. line M.	7MN1 #
44	Allow every Exts. to use C.O. line M	7M #
45	The Exts number return to the default setting	9000 #
46	To change the Ext.N to new number "abcd"	9Nabcd #